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INDEX TO AMERICAN BOTANICAL LITERATURE

(1908)

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in its broadest sense.

Reviews, and papers which relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions their kindness will be appreciated.

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Allison, E. M. Bibliography and history of Colorado botany. Univ.

Colorado Studies 6: 51-76. D 1908.

Baker, H. P. Some forestry problems of the prairies of the Middle West. Proc. Iowa Acad. Sci. 15: 91-95. 1908.

B[ean], W. J. *Rhus Toxicodendron*. Kew Bull. Misc. Inf. 1908: 455, 456. D 1908.

Beccari, O. *Palmae novae antillanae*. Repert. Nov. Spec. 6: 94-96. 20 N 1908.

Includes 4 new species in *Sabal*, *Thrinax*, and *Coccothrinax* (2).

Brown, H. The hashish plant in Arizona and Mexico. Plant World 11: 180-183. Au 1908.

Brown, N. E. *Cotyledon lateralis*. [In Decades Kewensis — LI.] Kew Bull. Misc. Inf. 1908: 447. D 1908.

A new species probably native in Mexico.

Brues, C. T. & B. B. A new fossil grass from the Miocene of Florissant, Colorado. Bull. Wisconsin Nat. Hist. Soc. 6: 170, 171. O 1908.

Cannon, W. A. A redwood sport. Plant World 11: 232-234. O 1908.

Cockerell, T. D. A. The fossil flora of Florissant, Colorado. Bull. Am. Mus. Nat. Hist. 24: 71-110. pl. 6-10. 1908.

Includes numerous new species in ferns and flowering plants.

- Cowles, H. C.** The response of plants to soil and climate. In Salisbury, R. D., Physiography for High Schools, 462-473. *f.* 443-447. New York, 1908.
- Demcker, R.** Die schönsten und grössten Bäume des nordamerikanischen Waldes. Mitt. Deuts. Dendr. Gesells. 1908: 166-171. 1908.
- Dode, L-A.** Notes dendrologiques — VI. Bull. Soc. Dendr. France 1908: 140-166. 15 My 1908. [Illust.]
- Dodds, G. S.** Geology and physiography of the mesas. Univ. Colorado Studies 6: 11-19. D 1908.
In "Studies in mesa and foothill vegetation."
- Elmer, A. D. E.** A century of new plants. Leaflet. Philippine Bot. 1: 272-359. 25 Ja 1908.
- Elmer, A. D. E.** A fascicle of South Negros figs. Leaflet. Philippine Bot. 2: 531-551. 23 D 1908.
- Elmer, A. D. E.** *Gesneraceae* from the Cuernos Mts. Leaflet. Philippine Bot. 2: 553-567. 27 D 1908.
- Elmer, A. D. E.** Six new *Myrsinaceae*. Leaflet. Philippine Bot. 2: 439-444. 7 N 1908.
- Elmer, A. D. E.** Six undescribed species of *Macaranga*. Leaflet. Philippine Bot. 2: 427-434. 3 N 1908.
- Elmer, A. D. E.** Synopsis of *Rubus*. Leaflet. Philippine Bot. 2: 445-462. 23 N 1908.
- Elmer, A. D. E.** The genus *Itea*. Leaflet. Philippine Bot. 2: 527-529. 16 D 1908.
- Elmer, A. D. E.** Three score of new plants. Leaflet. Philippine Bot. 2: 463-525. 14 D 1908.
- Fawcett, H. S.** The viability of weed seeds under different conditions of treatment, and a study of their dormant periods. Proc. Iowa Acad. Sci. 15: 25-45. 1908.
- Fleischer, M.** Grundlagen zu einer Monographie der Gattung *Stereohyphnum* (Hpe.). Hedwigia 47: 271-288. *f.* 1-8. 18 My 1908; 289-299. *f.* 9-15. 3 Jl 1908.
Includes notes on West Indian and South American species.
- Flett, J. B.** The seed plants, ferns, and fern allies, of the higher regions of the Olympic Mountains. Mountaineer 1: 108-116. N 1908.
- Foslie, M.** Nye Kalkalger. Kgl. Norske Vid. Selsk. Skr. 1908¹²: 1-9. 1908.
Includes new American species in *Lithothamnion* and *Goniolithon*.

- Foslie, M.** *Pliostroma*, a new subgenus of *Melobesia*. Kgl. Norske Vid. Selsk. Skr. **1908**¹¹: 1-7. 1908.
- Frye, T. C.** Thallophytes and bryophytes from the Olympic Mountains. Mountaineer **1**: 117-138. N 1908.
- Gagnepain, F.** Contribution à la connaissance du genre *Polycarpaea* Lamk. Jour. de Bot. **21**: 275-280. D 1908.
- Ganong, W. F.** A laboratory course in plant physiology. i-vi + 1-265. f. 1-68. 4 pl. New York, 1908. [Ed. 2.]
- Graebner, P.** Revision der Vosschen Coniferen-Nomenklatur. Mitt. Deuts. Dendr. Gesells. **1908**: 66-69. 1908.
- Graves, A. H.** The morphology of *Ruppia maritima*. Trans. Connecticut Acad. Arts & Sci. **14**: 59-170. pl. 1-15. D 1908.
- Greene, E. L.** *Argemone pleiakantha* Greene. Repert. Nov. Spec. **6**: 161. 31 D 1908.
Native in New Mexico.
- Hackel, E.** *Gramineae novae* — V. Repert. Nov. Spec. **6**: 153-161. 31 D 1908.
Includes new species in *Paspalum*, *Nassella* (2), *Calamagrostis*, *Eragrostis*, *Melica*, *Poa*, and *Festuca*, from Bolivia.
- Harms, H.** *Araliaceae*. [In Ule, Beiträge zur Flora von Bahia — I.] Bot. Jahrb. **42**: 237, 238. 29 D 1908.
Includes *Pentapanax Ulei* sp. nov.
- Harms, H.** *Leguminosae*. [In Ule, Beiträge zur Flora von Bahia — I.] Bot. Jahrb. **42**: 202-217. 29 D 1908.
Includes 30 new species in *Calliandra* (8), *Mimosa* (7), *Bauhinia*, *Cassia* (3), *Swartzia*, *Sweetia*, *Zornia* (3), *Dalbergia*, *Machaerium*, *Platymiscium*, *Camptosema*, *Galactia*, and *Phaseolus*.
- Harshberger, J. W.** The directive influence of light on the growth of forest plants. Proc. Acad. Nat. Sci. Philadelphia **60**: 449-451. pl. 24, 25. Au 1908.
- Heimerl, A.** Two new species of *Abronia*. Smithson. Misc. Coll. **52**: 197, 198. 23 D 1908.
Native in western United States.
- Hickel, R.** Notes pour servir à la détermination pratique des abiétinées. Bull. Soc. Dendr. France **1908**: 201-208. 15 N 1908.
- Kauffman, C. H.** A contribution to the physiology of the *Saprolegniaceae*, with special reference to the variations of the sexual organs. Ann. Bot. **22**: 361-387. pl. 23. Jl 1908.
- Koehne, E.** Abnorme Früchte von *Juglans nigra* L. Mitt. Deuts. Dendr. Gesells. **1908**: 197-199. 1908. [Illust.]

- Kraemer, H., & Sindall, H. E.** The microscopical and chemical examination of black pepper. *Am. Jour. Pharm.* **80**: 1-11. *f.* 1-4. J1 1908.
- Kraemer, H., & Sindall, H. E.** The microscopical and chemical examination of commercial ginger. *Am. Jour. Pharm.* **80**: 303-321. *f.* 1-5. J1 1908.
- Kränzlin, F.** *Orchidaceae novae bolivienses*. *Repert. Nov. Spec.* **6**: 18-23. 1 N 1908.
Includes 9 new species in *Pleurothallis*, *Elleanthus*, *Epidendrum*, *Maxillaria* (2), *Sobralia*, *Epistephium*, and *Stenorhynchus* (2).
- Lavoura, A.** Maduras e vegetaes uteis do Brazil. *Bol. Soc. Nac. Agr. [Brazil]* **12**: 8-12. F 1908; 333-338. Au 1908; 449-454. O 1908.
- Le Renard, A.** Recherches anatomiques sur la tige et la feuille des Sabiacées. *Jour. de Bot.* **21**: 290-332. D 1908.
- Livingston, B. E.** A new method for cultures of algae and mosses. *Plant World* **11**: 183, 184. Au 1908.
- Livingston, B. E.** The botanical garden at Pisa. *Plant World* **11**: 156, 157. J1 1908.
- Lloyd, F. E.** Methods of vegetative reproduction in guayule and mariola. *Plant World* **11**: 201-208. *f.* 6, 7. S 1908.
- Lloyd, F. E.** Some features of the anatomy of guayule (*Parthenium argentatum* Gray). *Plant World* **11**: 172-179. Au 1908.
- Lloyd, F. E.** Some seedlings of the desert. *Plant World* **11**: 154-156. J1 1908.
- MacCallum, W. B.** The flowering stalk of the century plant. *Plant World* **11**: 141-147. *f.* 1, 2. J1 1908.
- MacDougal, D. T.** The course of the vegetative seasons in southern Arizona. *Plant World* **11**: 189-201. *f.* 1-5. S 1908; 217-231. *f.* 1-12. O 1908; 237-249. *f.* 1-9. N 1908; 261-270. *f.* 1-4. D 1908.
- MacKay, A. H.** Water-rolled weed-balls. *Proc. & Trans. Nova Scot. Inst. Sci.* **11**: 667-670. 27 J1 1908. [Illust.]
- Magnus, P.** Über drei parasitische Pilze Argentinien. *Hedwigia* **48**: 147-151. *f.* 1-5. 28 N 1908.
- Martin-Lavigne, E.** Sur une curieuse formation de thylles dans le bois d'une artocarpée. *Jour. de Bot.* **21**: 281-286. *f.* 1-9. D 1908.
- Mazza, A.** Saggio di algologia oceanica. *Nuova Notar.* **19**: 153-170. O 1908.

- Murrill, W. A.** *Polyporaceae* (conclusio). N. Am. Flora **9**: 73-131. 12 Mr 1908.
Includes new species in *Corioloopsis* (4), *Cerrenella*, *Inonotus* (3), *Fomes*, *Pyropolyporus* (10), *Amauroderma* (3), *Ganoderma* (11), *Lenzites* (2), and *Gloeophyllum*.
- Olive, E. W.** Sexual cell fusions and vegetative nuclear divisions in the rusts. Ann. Bot. **22**: 331-360. *pl.* 22. Jl 1908.
- Pammel, L. H., & Robb, L.** Notes on the histological structure and specific gravity of the seeds of *Pyrus*. Proc. Iowa Acad. Sci. **15**: 47-53. *pl.* 1, 2. 1908.
- Pampanini, R.** Una specie ed una varieta nuova di *Tithonia* Desf. Bull. Soc. Bot. Ital. **1908**: 132-134. 31 D 1908.
Tithonia Vilmoriniana, native in Mexico.
- Pilger, R.** Kleinere Beiträge zur Kenntnis der Meeresalgen — I. Hedwigia **48**: 178-183. 28 N 1908.
Includes *Actinococcus exul* and *Nitophyllum Paessleri*, spp. nov. from south Chile.
- Ramaley, F.** Climatology of the mesas near Boulder, Colorado. Univ. Colorado Studies **6**: 19-31. D 1908.
In "Studies in mesa and foothill vegetation."
- Ramaley, F.** The botanical opportunity in Colorado. Univ. Colorado Studies **6**: 5-10. D 1908.
- Reed, H. S.** Fall blossoming of the apple induced by the black rot. Plant World **11**: 256, 257. N 1908.
- Rehder, A.** Einige neue oder kritische Gehölze. Mitt. Deuts. Dendr. Gessels. **1908**: 157-163. 1908.
- Reiche, K.** Zur Kenntnis der Dioscoreaceen-Gattung *Epipetrum* Phil. Bot. Jahrb. **42**: 178-190. *f.* 1-5. 29 D 1908.
- Robbins, W. W.** Distribution of the deciduous trees and shrubs on the mesas. Univ. Colorado Studies **6**: 36-49. *f.* 1-10. D 1908.
In "Studies in mesa and foothill vegetation."
- Robbins, W. W., & Dodds, G. S.** Distribution of conifers on the mesas. Univ. Colorado Studies **6**: 31-36. *f.* 1. D 1908.
In "Studies in mesa and foothill vegetation."
- Rose, J. N.** A new *Opuntia* from Arizona. Smithson. Misc. Coll. **52**: 153. *pl.* 12. 6 O 1908.
O. vivipara.
- Rose, J. N.** On *Opuntia Santa-rita*, a species of cactus of ornamental value. Smithson. Misc. Coll. **52**: 195, 196. *pl.* 15. 29 D 1908.
- Rosenstock, E.** *Filices novae* — IV. Repert. Nov. Spec. **6**: 175-179. 31 D 1908.
Includes 2 new species in *Notochlaena* and *Polypodium*, native in Bolivia.

- Saccardo, P. A.** Notae mycologicae. Ann. Myc. **6**: 553-569. 31 D 1908.
Includes 19 new American species, 14 from New York and 5 from Mexico.
- Sargent, C. S.** Das Arnold-Arboretum. Mitt. Deuts. Dendr. Gesells. **1908**: 163-166. 1908. [Illust.]
- Sauer, L. W.** A key to Ohio's commoner conifers. Plant World **11**: 235-236. O 1908.
- Saunders, C. F.** Vital tenacity of an orange tree stump. Plant World **11**: 234, 235. O 1908.
- Shimek, B.** A hybrid oak. Proc. Iowa Acad. Sci. **15**: 77-83. pl. 1, 2. 1908.
- Shimek, B.** The genesis of Loess a problem in plant ecology. Proc. Iowa Acad. Sci. **15**: 57-75. pl. 3-7. 1908.
- Shreve, F.** Transpiration and water storage in *Stelis ophioglossoides* Sw. Plant World **11**: 165-172. Au 1908.
- Shull, G. H.** Dr. Baur on variegation. Plant World **11**: 147-151. Jl 1908.
- Skinner, J. J.** Water culture method for experimenting with potatoes. Plant World **11**: 249-254. f. 10-12. N 1908.
- Spalding, V. M.** The western edge of the Colorado Desert. Plant World **11**: 208-215. S 1908.
- Sprague, T. A.** *Bignoniaceae* peruvianae. Bot. Jahrb. **42**: 177. 29 D 1908.
Includes *Stenolobium arequipense* sp. nov.
- Sprague, T. A.** *Columnnea* (*Eucolumnnea*) *guatemalensis*. [In Decades Kewensis — LI.] Kew Bull. Misc. Inf. **1908**: 448. D 1908.
A new species from Guatemala.
- Sprague, T. A.** *Columnnea* (*Eucolumnnea*) *oblanceolata*. [In Decades Kewensis — LI.] Kew Bull. Misc. Inf. **1908**: 449. D 1908.
A new species from Costa Rica.
- South, F. W., & Compton, R. H.** On the anatomy of *Dioon edule* Lindl. New Phytol. **7**: 222-229. f. 35-40. 31 D 1908.
- Stapf, O.** *Angadenia nitida*. Curt. Bot. Mag. **5**: pl. 8233. Ja 1909.
Native in tropical South America.
- Stiles, W.** The anatomy of *Saxegothaea conspicua* Lindl. New Phytol. **7**: 209-222. f. 28-34. 31 D 1908.
- Stephani, F.** Species *Hepaticarum*. Bull. Herb. Boiss. II. **8**: 125-148. 31 Ja 1908; 205-220. 29 F 1908; 267-282. 30 Mr 1908;

371-375. 2 My 1908; 426-436. 30 My 1908; 483-514. 1 Jl 1908; 561-608. 31 Jl 1908; 661-696. 31 Au 1908; 745-776. 30 S 1908; 837-866. 31 O 1908.

Includes new American species in *Chiloscyphus* (4), *Zoopsis*, *Cephalozia* (6), *Alobiella*, *Odontoschisma* (10), *Adelanthus* (2), *Marsupidium*, *Calypogeia* (6), *Mastigobryum* (16), and *Saccogyna* (2).

Stone, R. E. Peculiarities in the known distribution of some species of cedar apple. *Plant World* 11: 270-272. D 1908.

Sumstine, D. R. Observations on habits of fungi in western Pennsylvania. *Plant World* 11: 274, 276, 277. D 1908.

Svedelius, N. Über den Bau und die Entwicklung der Florideengattung *Martensia*. *Kungl. Svensk. Vet.-Akad. Handl.* 43⁷: 1-101. *pl.* 1-4 + *f.* 1-62. 19 D 1908.

Urban, I. *Loasaceae*. [In Ule, *Beiträge zur Flora von Bahia* — I.] *Bot. Jahrb.* 42: 231, 232. 29 D 1908.
Includes *Loasa Gilgiana* sp. nov.

Urban, I. *Plantae novae andinae imprimis Weberauerianae* — IV (Schluss). *Bot. Jahrb.* 42: 177. 29 D 1908.
Includes *Stenolobium arequipense* sp. nov. from Peru. (Sprague.)

Ulbrich, E. *Malvaceae*. [In Ule, *Beiträge zur Flora von Bahia* — I.] *Bot. Jahrb.* 42: 225-229. 29 D 1908.
Includes 5 new species in *Sida* (2), and *Pavonia* (3).

Ule, E. *Beiträge zur Flora von Bahia* — I. *Bot. Jahrb.* 42: 191-238. *pl.* 1 + *f.* 1. 29 D 1908.
Includes 10 separate papers indexed under their respective authors as follows, Ule (6), Harms (2), Ulbrich, and Urban.

Ule, E. *Bromeliaceae*. [In Ule, *Beiträge zur Flora von Bahia* — I.] *Bot. Jahrb.* 42: 191-199. *f.* 1. 29 D 1908.
Includes new species in *Sincoraea* gen. nov., *Cryptanthopsis* gen. nov., *Bromelia*, *Nidularium*, *Hohenbergia* (2), *Aechmea*, *Dyckia*, and *Encholirion* (2).

Ule, E. *Capparidaceae*. [In Ule, *Beiträge zur Flora von Bahia* — I.] *Bot. Jahrb.* 42: 201, 202. 29 D 1908.
Includes a new genus and three new species.

Ule, E. *Euphorbiaceae*. [In Ule, *Beiträge zur Flora von Bahia* — I.] *Bot. Jahrb.* 42: 217-225. 29 D 1908.
Includes 4 new species in *Argyrothamnia*, *Plukenetia*, *Pera*, *Jatropha* (3), *Manihot* (2), *Sebastiania* (2), *Stillingia*, and *Euphorbia* (3).

Ule, E. *Loranthaceae*. [In Ule, *Beiträge zur Flora von Bahia* — I.] *Bot. Jahrb.* 42: 199-201. *pl.* 1. 29 D 1908.
Includes new species, *Struthanthus sincorensis*, *S. tenuicaulis*, and *Phoradendron Caesalpiniae*.

- Ule, E.** *Melastomataceae*. [In Ule, Beiträge zur Flora von Bahia — I.] Bot. Jahrb. **42**: 232–236. 29 D 1908.
Includes 7 new species in *Chaetostoma*, *Microlicia* (2), *Pterolepis*, *Itatiaia*, gen. nov., *Fritzschia*, and *Marcelia*.
- Ule, E.** *Violaceae*. [In Ule, Beiträge zur Flora von Bahia — I.] Bot. Jahrb. **42**: 230, 231. 29 D 1908.
Includes 2 new species, *Hybanthus procumbens* and *H. arenarius*.
- Thorner, J. J.** The viability of seeds. Plant World **11**: 158, 159. Jl 1908.
- Theissen, F.** Fragmenta brasileira. Ann. Myc. **6**: 531–535. 31 D 1908.
Includes *Phyllachora Goeppertiae* sp. nov.
- Vries, H. de.** Über die Zwillingsbastarde von *Oenothera nanella*. Ber. Deuts. Bot. Gesells. **26a**: 667–676. 19 D 1908.
- Wangerin, W.** *Cornaceae* novae — II. Repert. Nov. Spec. **6**: 97–102. 20 N 1908.
- Weed, C. M.** The study of the evergreens in the public schools. 1–30. Boston, 1908. [Illust.]
- Wildeman, E. de.** *Acanthostachys strobilacea* Kl. Icon. Select. Hort. Thenensis **6**: 87–90. pl. 224. My 1908.
- Wildeman, E. de.** *Serjania cuspidata* Camb. Icon. Select. Hort. Thenensis **6**: 97–100. pl. 227. N 1908.
- Wilson, G. W.** Notes on *Peronosporales* for 1907. Proc. Iowa Acad. Sci. **15**: 85–89. 1908.
- Wolff, H.** *Eryngium Buchtienii* Wolff nov. spec. Repert. Nov. Spec. **6**: 24. 1 N 1908.
Native of Bolivia.